

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	25	catsper\$	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L2	38997	sperm or spermatozoa or spermatozoan or spermatogenesis or gamete	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L3	1785536	channel	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L4	996414	ion	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L5	269949	cation or (positive adj ion)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L6	119	L2 same L3 same (L4 or L5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:09
L7	1	wo-200061624-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:10
L8	1	wo-200190304-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:10
L9	8867	ren.in. or clapham.in. or garbers.in. or quill.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:11
L10	88	l9 and l2	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/03/07 15:12

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(FILE 'HOME' ENTERED AT 15:13:17 ON 07 MAR 2007)

FILE 'MEDLINE, AGRICOLA, BIOSIS, CAPLUS, EMBASE, SCISEARCH' ENTERED AT
15:13:30 ON 07 MAR 2007

E REN D/AU
L1 811 E3
E REN DEJIAN/AU
L2 38 E3
E CLAPHAM D E/AU
L3 959 E3 OR E5 OR E6 OR E7
E GARBERS D L/AU
L4 1208 E3 OR E5 OR E6 OR E7
E QUILL T A/AU
L5 63 E3 OR E11 OR E12
L6 3000 L1 OR L2 OR L3 OR L4 OR L5
L7 129 CATSPER?
L8 46 DUP REM L7 (83 DUPLICATES REMOVED)
L9 379653 SPERM OR SPERMATOOA OR SPERMATOOAN OR SPERMATOGENESIS OR GAME
L10 576 L6 AND L9
L11 3656172 (ION OR CATION OR (POSITIVE(W)ION))
L12 1605315 CHANNEL OR PORE
L13 243826 L11 (S)L12
L14 50 L10 AND L13
L15 17 DUP REM L14 (33 DUPLICATES REMOVED)
L16 1308 L13 AND L9
L17 1014 L13 (P) L9
L18 1837010 MOTIL? OR FUSION OR FERTIL?
L19 799 L16 AND L18
L20 563 L13 (P) L9 (P) L18
L21 185 DUP REM L20 (378 DUPLICATES REMOVED)
L22 13 L21 AND TRANSMEMBRANE

=>

<!--StartFragment-->RESULT 3

US-10-828-975-2

; Sequence 2, Application US/10828975

; Publication No. US20050142566A1

; GENERAL INFORMATION:

; APPLICANT: REN, DEJIAN

; APPLICANT: CLAPHAM, DAVID E.

; APPLICANT: GARBERS, DAVID L.

; APPLICANT: QUILL, TIMOTHY A.

; TITLE OF INVENTION: SPERM-SPECIFIC CATION CHANNEL, CATSPER2, AND USES

; TITLE OF INVENTION: THEREFOR

; FILE REFERENCE: 110313.136US2

; CURRENT APPLICATION NUMBER: US/10/828,975

; CURRENT FILING DATE: 2004-04-21

; PRIOR APPLICATION NUMBER: PCT/US02/33676

; PRIOR FILING DATE: 2002-10-22

; PRIOR APPLICATION NUMBER: 60/345,324

; PRIOR FILING DATE: 2001-10-22

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: PatentIn Ver. 3.3

; SEQ ID NO 2

; LENGTH: 528

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-828-975-2

Query Match 94.8%; Score 1984; DB 5; Length 528;

Best Local Similarity 98.0%; Pred. No. 1.7e-171;

Matches 397; Conservative 1; Mismatches 3; Indels 4; Gaps 1;

Qy **Seq ID #1** 1 MAAYQQEEQMQLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKKLVLDG 60
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 Db " " **#2** 1 MAAYQQEEQMQLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKKLVLDG 60

Qy 61 QHQLVRFSSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPLFKNFIIIFLVFL 120
 |||
 Db 61 QHQLVRFSSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPLFKNFIIIFLVFL 120

Qy 121 NTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLNSNFSVFWKSAWNVF 180
 |||
 Db 121 NTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLNSNFSVFWKSAWNVF 180

Qy 181 DFVVTMLSLLPEVVVLVGVTGQSVWLQLLRICRVLRLSLKLLAQFRQIQIIILVLVRALKS 240
 |||
 Db 181 DFVVTMLSLLPEVVVLVGVTGQSVWLQLLRICRVLRLSLKLLAQFRQIQIIILVLVRALKS 240

Qy 241 MTFLMLLLIFFYIFAVTGVYVFSEYTRSPRDLEYHVFFSDLPNSLVTVFILFTLDHWY 300
 |||
 Db 241 MTFLMLLLIFFYIFAVTGVYVFSEYTRSPRDLEYHVFFSDLPNSLVTVFILFTLDHWY 300

Qy 301 ALLQDVWKVPEVSRIFSSIIYFILWLLGSIIFRSIIIVAMMVTNFNQIRKELNEEMARREV 360
 |||
 Db 301 ALLQDVWKVPEVSRIFSSIIYFILWLLGSIIFRSIIIVAMMVTNFNQIRKELNEEMARREV 360

Qy 361 QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDRSFGLGDSCARKS 405
 ||| :|
 Db 361 QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDR----GASQQRES 401

<!--EndFragment-->

<!--StartFragment-->RESULT 12

AAB52176

ID AAB52176 standard; protein; 243 AA.

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AC AAB52176;

XX

DT 22-FEB-2001 (first entry)

XX

DE Human secreted protein BLAST search protein SEQ ID NO: 132.

XX

KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
 KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
 KW vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
 KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; human; secreted protein.

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OS Homo sapiens.

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PN WO200061624-A1.

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PD 19-OCT-2000.

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PF 06-APR-2000; 2000WO-US008980.

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PR 09-APR-1999; 99US-0128700P.

PR 20-JAN-2000; 2000US-0176930P.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

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PI Rosen CA, Ruben SM, Komatsoulis G;

XX

DR WPI; 2000-656324/63.

XX

PT New nucleic acid molecules encoding human secreted proteins, used in
 PT preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
 PT Parkinson's diseases and cancers.

XX

PS Disclosure; Page 469-470; 478pp; English.

XX

CC The invention relates to the isolation of genes AAC96900-C96947 encoding
 CC the human secreted proteins AAB52104-B52150. This sequence was used as a
 CC query sequence for BLASTX searches. The genes and proteins are useful for
 CC preventing, ameliorating or treating medical conditions, e.g. by protein
 CC or gene therapy. The genes are isolated from a range of human tissues
 CC disclosed in the specification. The nucleic acids, proteins, antibodies
 CC and (ant)agonists are useful in the diagnosis, treatment and prevention
 CC of: (a) cancer, e.g. breast and ovarian cancer, and other cancers of the
 CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,
 CC lung, or urogenital; (b) immune disorders e.g. Addison's disease,
 CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
 CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
 CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as
 CC myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.
 CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,
 CC bacterial, fungal and parasitic infections

XX

SQ Sequence 243 AA;

Query Match 46.0%; Score 1221; DB 3; Length 243;

Best Local Similarity 100.0%; Pred. No. 7.7e-104;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Seq ID#2
Qy 108 PLFKNFIIFLVFLNTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLS 167
|
Db 1 PLFKNFIIFLVFLNTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLS 60

Qy 168 NFSVFWKSAWNVDFVVTMLSLLPEVVVLVGVTGQSVWLQLLRICRVLRSLKLLAQFRQI 227
|
Db 61 NFSVFWKSAWNVDFVVTMLSLLPEVVVLVGVTGQSVWLQLLRICRVLRSLKLLAQFRQI 120

Qy 228 QIIILVLRALKSMTFLLMLLLIFFYIFAVTGVYVFSEYTRSPRQDLEYHVFFSDLPNSL 287
|
Db 121 QIIILVLRALKSMTFLLMLLLIFFYIFAVTGVYVFSEYTRSPRQDLEYHVFFSDLPNSL 180

Qy 288 VTVFILFTLDHWYALLQDVWKVPEVSRIFFSIYFILWLLGSIIFRSIIVAMMVTNFQNI 347
|
Db 181 VTVFILFTLDHWYALLQDVWKVPEVSRIFFSIYFILWLLGSIIFRSIIVAMMVTNFQNI 240

Qy 348 RKE 350
|
Db 241 RKE 243

<!--EndFragment-->

<!--StartFragment-->RESULT 3

ABB89967

ID ABB89967 standard; protein; 414 AA.

XX

AC ABB89967;

XX

DT 24-MAY-2002 (first entry)

XX

DE Human polypeptide SEQ ID NO 2343.

XX

KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;

KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;

KW vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;

KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;

KW neurological disease; infection; human; secreted protein.

XX

OS Homo sapiens.

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PN WO200190304-A2.

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PD 29-NOV-2001.

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PF 18-MAY-2001; 2001WO-US016450.

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PR 19-MAY-2000; 2000US-0205515P.

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PA (HUMA-) HUMAN GENOME SCI INC.

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PI Birse CE, Rosen CA;

XX

DR WPI; 2002-122018/16.

DR N-PSDB; ABL90376.

XX

PT Novel 1405 isolated polypeptides, useful for diagnosis, treatment and

PT prevention of neural, immune system, muscular, reproductive,

PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative

PT disorders.

XX

PS Claim 11; SEQ ID NO 2343; 2081pp + Sequence Listing; English.

XX

CC The invention relates to novel genes (ABL89449-ABL90853) and proteins

CC (ABB89040-ABB90444) useful for preventing, treating or ameliorating

CC medical conditions e.g. by protein or gene therapy. The genes are

CC isolated from a range of human tissues disclosed in the specification.

CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in

CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and

CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,

CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune

CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic

CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,

CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)

CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing

CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)

CC infectious diseases such as viral, bacterial, fungal and parasitic

CC infections. Note: The sequence data for this patent did not form part of

CC the printed specification, but was obtained in electronic format directly

CC from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX

SQ Sequence 414 AA;

Query Match

99.8%; Score 2087; DB 5; Length 414;

Best Local Similarity 99.8%; Pred. No. 1.4e-205;

Matches 413; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy      1 MAAYQQEEQMQLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKKLVLGD 60
        |||
Db      1 MAAYQQEEQMQLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKKLVLGD 60

Qy     61 QHQLVRFSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPLFKNFIIFLVFL 120
        |||
Db     61 QHQLVRFSIKPQRIEQISHAQRLLSRLHVRCSQRPPSLWAGWVLECPLFKNFIIFLVFL 120

Qy    121 NTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLNSNFSVFWKSAWNVF 180
        |||
Db    121 NTIILMVEIELLESTNTKLWPLKLTLEVAAWFILLIFILEILLKWLNSNFSVFWKSAWNVF 180

Qy    181 DFVVTMLSLLEPEVVVLVGVTGQSVWLQLLRICRVLRSLKLLAQFRQIQIIILVLRALKS 240
        |||
Db    181 DFVVTMLSLLEPEVVVLVGVTGQSVWLQLLRICRVLRSLKLLAQFRQIQIIILVLRALKS 240

Qy    241 MTFLMLLLLIFFYIFAVTGVYVFSEYTRSPRDLEYHVFFSDLPNSLVTVFILFTLDHWY 300
        |||
Db    241 MTFLMLLLLIFFYIFAVTGVYVFSEYTRSPRDLEYHVFFSDLPNSLVTVFILFTLDHWY 300

Qy    301 ALLQDVWKVPEVSRIFSSIIYFILWLLGSIIFRSIIIVAMMVTNFNQIRKELNEEMARREV 360
        |||
Db    301 ALLQDVWKVPEVSRIFSSIIYFILWLLGSIIFRSIIIVAMMVTNFNQIRKELNEEMARREV 360

Qy    361 QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDRSFGLGDSCARKSARANGNGSG 414
        |||
Db    361 QLKADMFKRQIIQRRKNMSHEALTSSHSKIEDRSFGLGDSCARKSARANGNGSG 414
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<!--EndFragment-->